

# Semiconductor Manufacturing Apparatus

## Abstract

According to the present invention, a wafer holder is supported by support pieces mounted on a pedestal and is installed within the processing chamber of a semiconductor manufacturing device, wherein the lift pins are set up anchored to the semiconductor-manufacturing-device chamber and the pedestal is driven vertically, thereby running the wafer holder up/down to thrust the lift pins out from, or retract them into, the top side of the wafer holder, which makes it possible to dechuck wafers from and pocket them into the holder. Consequently, leveling the height of the tip ends of the plurality of lift pins is facilitated and synchronization problems are completely eliminated besides, which thus makes it possible to prevent wafer drop-off during wafer dechucking/pocketing. And since a mechanism for synchronously driving the plural lift pins up/down is unnecessary, the device overall can be made more compact.